

MAR 22 2004

FORM PTO-1420
(REV. 7-80)MARCH 2004
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
51889/3 USAPPLICATION NO.
10/719,119INFORMATION DISCLOSURE CITATION
APPLICANT – Douglas R. Hackler, Sr. et al.FILING DATE-
November 21, 2003

Title: DOUBLE-GATED TRANSISTOR CIRCUIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PC	1	2002/0187610 A1	12/12/02	Furukawa et al.	438	283	06/12/01
	2	2002/0153587 A1	10/24/02	Adkisson et al.	257	510	07/02/02
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	12	6,365,465 B1	04/02/02	Chan et al.	438	283	03/19/99
	13	6,064,589	05/16/00	Walker	365	149	05/05/98
	14	5,773,331	06/30/98	Solomon et al.	438	164	12/17/96
	15	5,677,550	10/14/97	Lee	257	69	04/15/93
PC	16	5,436,506	07/25/95	Kim et al.	257	347	10/12/93

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PC	17	5,349,228	09/20/94	Neudeck et al.	257	365	12/07/93
PC	18	5,273,921	12/28/93	Neudeck et al.	437	41	12/27/91
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY / PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	20							
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PC	28	Harada et al., "2-GHz RF Front-End Circuits in CMOS/SIMOX Operating at an Extremely Low Voltage of 0.5 V," IEEE Journal of Solid-State Circuits, Vol. 35, No. 12, December 2000, pgs. 2000-2004.
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PC	30	Yang et al., "Back-Gated CMOS on SOIAS for Dynamic Threshold Voltage Control," IEEE Transactions on Electron Devices, Vol. 44, No. 5, May 1997, pgs. 822-831.
PC	31	Assaderaghi et al., "Dynamic Threshold-Voltage MOSFET (DTMOS) for Ultra-Low Voltage VLSI," IEEE Transactions on Electron Devices, Vol. 44, No. 3, March 1997, pgs. 414-422.

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X	32	Assaderaghi et al., "A Dynamic Threshold Voltage MOSFET (DTMOS) for Very Low Voltage Operation," IEEE Electron Device Letters, Vol. 15, No. 12, December 1994, pgs. 510-512.
X	33	Assaderaghi et al., "A Dynamic Threshold Voltage MOSFET (DTMOS) for Ultra-Low Voltage Operation," Department of Electrical Engineering and Computer Science, University of California at Berkeley, Berkeley, CA, pgs. 33.1.1-33.1.4.
	34	Hsu et al., "Low-Frequency Noise Properties of Dynamic-Threshold (DT) MOSFET's," IEEE Electron Device Letters, Vol. 20, No. 10, October 1999, pgs. 532-534.
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PC	46	Fung et al., "Gate length scaling accelerated to 30nm regime using ultra-thin film PD-SOI Technology," IBM Microelectronics Semiconductor Research and Development Center (SRDC), pgs. 29.3.1-29.3.4.
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	49	Kedzierski et al., "Complementary silicide source/drain thin-body MOSFETs for the 20nm gate length regime," Department of Electrical Engineering and Computer Sciences, University of California at Berkeley, Berkeley, CA, 94720, USA, pgs. 3.4.1-3.4.4.
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	56	Wong et al., "Design and Performance Considerations for Sub-0.1 μm Double-Gate SOI MOSFET's," I.B.M. Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598, U.S.A., pgs. 30.6.1-30.6.4.
	57	Wong et al., "Device Design Considerations for Double-Gate, Ground-Plane, and Single-Gated Ultra-Thin SOI MOSFET's at the 25 nm Channel Length Generation," IBM T.J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598, U.S.A., pgs. 15.2.1-15.2.4.
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<i>PC</i>	61	Oh et al., "Analytic Description of Short-Channel Effects in Fully-Depleted Double-Gate and Cylindrical, Surrounding-Gate MOSFETs," IEEE Electron Device Letters, Vol. 21, No. 9, September 2000, pgs. 445-447.
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	64	Wong et al., "Self-Aligned (Top and Bottom) Double-Gate MOSFET with a 25 nm Thick Silicon Channel," IBM T. J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598, U.S.A., pgs. 16.6.1-16.6.4.
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<i>PC</i>	73	Matsuo et al., "High Performance Damascene Gate CMOSFETs with Recessed Channel Formed by Plasma Oxidation and Etching Method (RC-POEM)," Process & Manufacturing Engineering Center, Semiconductor Company, Toshiba Corporation, 8, Shinsugita-cho, Isogo-ku, Yokohama 235-8522, Japan, pgs. 17.5.1-17.5.4.

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PC	74	Ducroquet et al., "Full CMP Integration of CVD TiN Damascene Sub-0.1-μm Metal Gate Devices For ULSI Applications," IEEE Transactions on Electron Devices, Vol. 48, No. 8, August 2001, pgs. 1816-1821.
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	81	Hisamoto et al., "FinFET—A Self-Aligned Double-Gate MOSFET Scalable to 20 nm," IEEE Transactions on Electron Devices, Vol. 47, No. 12, December 2000, pgs. 2320-2325.
	82	Chang et al., "FinFET Scaling to 10nm Gate Length," Strategic Technology, Advanced Micro Devices, Inc., Sunnyvale, CA 94088, USA, pgs. 10.2.1-10.2.4
	83	Choi et al., "FinFET Process Refinements for Improved Mobility and Gate Work Function Engineering," Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, CA 94720, USA, pgs. 10.4.1-10.4.4.
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PC	90	Yagishita et al., "High Performance Metal Gate MOSFETs Fabricated by CMP for 0.1µm Regime," Microelectronics Engineering Laboratory, Toshiba Corporation, 8, Shinsugita-cho, Isogo-ku, Yokohama 235-8522, Japan, pgs. 29.3.1-29.3.4.
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PC	97	Hackler, Sr., Douglas R., "TMOS: A Novel Design for MOSFET Technology," A Thesis Presented in Partial Fulfillment of the Requirements for the Degree of Master of Science with a Major in Electrical Engineering in the College of Graduate Studies, University of Idaho, October 1999, 126 pgs.
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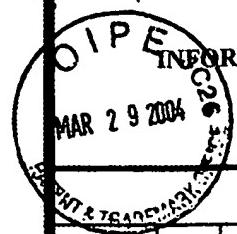
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Group Art Unit
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PC	A1	2003/0058001	03/27/03	Boerstler et al.	326	113	09/27/01
	A2	2002/0180486	12/05/02	Yamashita et al.	326	113	06/25/02
	A3	2002/0084803	07/04/02	Mathew et al.	326	113	12/29/00
	A4	2002/0081808	06/27/02	Forbes	438	283	01/25/02
	A5	2002/0047727	04/25/02	Mizuno	326	113	10/18/01
	A6	2001/0022521	09/20/01	Sasaki et al.	326	113	05/21/01
	A7	6,433,609	08/13/02	Voldman	327	313	11/19/01
	A8	6,420,905	07/16/02	Davis et al.	326	113	09/07/00
	A9	6,404,237	06/11/02	Mathew et al.	326	113	12/29/00
↓	A10	6,376,317	04/23/02	Forbes et al.	438	283	06/28/00
PC	A11	6,188,243	02/13/01	Liu et al.	326	81	06/09/99

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PC	A13	6,097,221	08/01/00	Sako	326	113	12/10/96	
PC	A14	6072,354	06/06/00	Tachibana et al.	327	390	09/29/97	
PC	A15	4,468,574	08/28/84	Engeler et al.	307	451	05/03/82	
PC	A16	4,300,064	11/10/81	Eden	307	446	02/12/79	
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